CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

Job No.: CTCE/BBMP/W.No.13/PP/CEMENT/2013-14

Date: 04.04.2013

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. P. Prakash,** Contractor, Bangalore.
NAME OF THE WORK	:	Providing Cement Concrete to Cross Roads at Bhuvaneshwari Nagara in Ward No.13, BBMP, Bangalore.
REFERENCE	:	BBMP/AEE/SSD/DZ/PR/2012-13
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	495 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.50 %	-

AE ward no-13.

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ಶಿಫ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ದಾಸರಹಳ್ಳಿ ವಲಯ
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾ...ಕೆ
ಎಸ್.ಎಂ ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

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Job No.: CTCE/BBMP/W.No.13/PP/SAND/2013-14 : 04.04.2013

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Mr. P. Prakash,** Contractor, Bangalore.

Name of Work : Providing Cement Concrete to Cross Roads at Bhuvaneshwari Nagara in Ward No.13, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2012-13

Date of Testing : 04.04.2013

Material : Sand

Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	98	4.90	4.90	95.1	90-100
2.36	224	11.20	16.10	83.9	75-100
1.18	498	24.90	41.00	59.0	55-90
600 Micron	416	20.80	61.80	38.2	35-59
300 Micron	485	24.25	86.05	14.0	8-30
150 Micron	223	11.15	97.20	2.8	0-10

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Job No.: CTCE/BBMP/W.No.13/PP/AGG/2013-14 : 04.04.2013

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Mr. P. Prakash,** Contractor, Bangalore.

Name of Work : Providing Cement Concrete to Cross Roads at Bhuvaneshwari Nagara in Ward No.13, BBMP, Bangalore.

Reference : BBMP/AEE/SSD/DZ/PR/2012-13

Date of Testing : 04.04.2013

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **25600**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	992	3.88	3.88	96.13	95-100
20	15728	61.44	65.31	34.69	30-70
10	5956	23.27	88.58	11.42	10-35
4.75	2564	10.02	98.59	1.41	0-5

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ಶೆಟ್ಟಿಹಳ್ಳಿ ಉಪವಿಭಾಗ, ಪಶ್ಚಿಮ ವಲಯ
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Job No.: CTCE/BBMP/W.No.13/PP/STEEL/2013-14 04.04.2013

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. P. Prakash,** Contractor, Bangalore.
Name of the work	:	Providing Cement Concrete to Cross Roads at Bhuvaneshwari Nagara in Ward No.13, BBMP, Bangalore.
Reference	:	BBMP/AEE/SSD/DZ/PR/2012-13
Date of Test	:	04.04.2013
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm²	Tensile strength (Ultimate stress) N/mm²	Elongation percent gauge length		
1	8	0.40	510	547	12.75	O.K	O.K
2	10	0.62	513	551	13.10	O.K	O.K
3	12	0.89	515	555	13.45	O.K	O.K

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Job No.: CTCE/BBMP/W.No.13/PP/CUBE/2013-14 06.05.2013

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	: **Mr. P. Prakash,** Contractor, Bangalore.
Name of the work	: Providing Cement Concrete to Cross Roads at Bhuvaneshwari Nagara in Ward No.13, BBMP, Bangalore.
Reference	: BBMP/AEE/SSD/DZ/PR/2012-13
Sample ID	: RCC Drain Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	08.04.2013	06.05.2013	8.459	537.4	23.88
2	08.04.2013	06.05.2013	8.367	528.9	23.51
3	08.04.2013	06.05.2013	8.215	520.7	23.14

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Job No.: CTCE/BBMP/W.No.13/PP/Pre slab/2013-14

10.04.2013

PRE CAST SLAB(CORE) TEST REPORT

Name of Client : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Name of Agency : **Mr. P. Prakash,** Contractor, Bangalore.

Name of work : Providing Cement Concrete to Cross Roads at Bhuvaneshwari Nagara in Ward No.13, BBMP, Bangalore.

Referece : BBMP/AEE/SSD/DZ/PR/2012-13

No.of Sample Tested : 03

Date of Testing : 10.04.2013

Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	79.00	0.395	2546.48	1.58	0.960	33.60	17.11	18.48	17.74	22.18
2	50.00	77.00	0.380	2513.41	1.54	0.960	32.95	16.78	18.12	17.40	21.75
3	50.00	76.00	0.375	2512.97	1.52	0.960	32.70	16.65	17.99	17.27	21.58

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